SEQUENCE LISTING

<110> MERISTEM THERAPEUTICS

<120> SYNTHETIC AND CHIMERIC PROMOTERS, EXPRESSION CASSETTES,

PLASMIDS, VECTORS, TRANSGENIC PLANTS ET SEEDS INCLUDING

THEM AND PROCESSES FOR PRODUCING THE SAME

<130> PrHMWG1

<140>

<141>

<160> 37

<170> PatentIn Ver. 2.1

<210> 1

<211> 417

<212> DNA

<213> Triticum aestivum

<220>

<221> misc_feature

<222> (22)..(29)

<223> Prolamine- like box

<220>

<221> misc_feature

<222> (70)..(73)

<223> GATA box

<220>

<221> misc_feature

<222> (87)..(90)

<223> GATA box

<220>

<221> misc_feature

<222> (127)..(133)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (161)..(168)

<223> G-like box

<220>

<221> enhancer

<222> (193)..(230)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (349)..(355)

<223> TATA box

80

<220>

<221> misc_feature

<222> (379)

<223> Transcription initiation site

<400> 1

agctttgagt ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac 60

cccaagaagg ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca 120

cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgcacgcag ccatggtcct gaaccttcac ctcgtcccta taaaagccta 360

gccaaccttc acaatcttat catcacccac aacaccgagc accacaaact agagatc 417

<210> 2

<211> 181

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1126

    promoter

<220>

<221> TATA_signal

<222> (113)..(119)

<223> TATA box

<220>

<221> misc_feature

<222> (143)

<223> Transcription Initiation site

<400> 2

gtgttggcaa actgcgcttt tccaaccgat tttgttcttc tcgcgctttc ttcttaggct 60

aaacaaacct caccgtgcac gcagccatgg tcctgaacct tcacctcgtc cctataaaag 120

cctagccaac cttcacaatc ttatcatcac ccacaacacc gagcaccaca aactagagat 180

c   181

<210> 3

<211> 244

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1127

    promoter

<220>

<221> enhancer

<222> (20)..(57)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (176)..(182)

<223> TATA box

<220>

<221> misc_feature

<222> (206)

<223> Transcription Initiation site

<400> 3

gcagactgtc caaaaatctg ttttgcaaag ctccaattgc tccttgctta tccagcttct 60

tttgtgttgg caaactgcgc ttttccaacc gattttgttc ttctcgcgct ttcttcttag 120

gctaaacaaa cctcaccgtg cacgcagcca tggtcctgaa ccttcacctc gtccctataa 180

aagcctagcc aaccttcaca atcttatcat cacccacaac accgagcacc acaaactaga 240

gatc   244

<210> 4

<211> 277

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1128

     promoter

<220>

<221> misc_feature

<222> (21)..(28)

<223> G-like box

<220>

<221> enhancer

<222> (53)..(90)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (209)..(215)

<223> TATA box

<220>

<221> misc_feature

<222> (239)

<223> Transcription Initiation Site

<400> 4

cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat ctgttttgca 60

aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg cgcttttcca 120

accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgcacgcag 180

ccatggtcct gaaccttcac ctcgtcccta taaaagccta gccaaccttc acaatcttat 240

catcacccac aacaccgagc accacaaact agagatc 277

<210> 5

<211> 472

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1130

promoter

<220>

<221> misc_feature

<222> (22)..(29)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (70)..(73)

<223> GATA box

<220>

<221> misc_feature

<222> (87)..(90)

<223> GATA box

<220>

<221> misc_feature

<222> (127)..(133)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (161)..(168)

<223> G-like box

<220>

<221> enhancer

<222> (193)..(230)

<223> Enhancer box

<220>

<221> misc_feature

<222> (314)..(368)

<223> As2/As2/As1 box

<220>

<221> TATA_signal

<222> (404)..(410)

<223> TATA box

<220>

<221> misc_feature

<222> (434)

<223> Transcription Initiation Site

<400> 5

agctttgagt ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac 60

cccaagaagg ataatcactt ttcttagata aaaagaaca gaccaatata caaacatcca 120

cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgattgatg tgatatcaag attgatgtga tatctccact gacgtaaggg 360

atgacgcaca cgcagccatg gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa 420

ccttcacaat cttatcatca cccacaacac cgagcaccac aaactagaga tc   472

<210> 6

<211> 455

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1131

    promoter

<220>

<221> misc_feature

<222> (22)..(29)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (70)..(73)

<223> GATA box

<220>

<221> misc_feature

<222> (87)..(90)

<223> GATA box

<220>

<221> misc_feature

<222> (127)..(133)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (161)..(168)

<223> G-like box

<220>

<221> enhancer

<222> ()..)

<223> Enhancer box

<220>

<221> misc_feature

<222> ()..)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> ()..(393)

<223> TATA box

88

<220>

<221> misc_feature

<222> ()

<223> Transcription Initiation Site

<400> 6

agctttgagt ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac 60

cccaagaagg ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca 120

cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc 360

atggtcctga accttcacct cgtccctata aaagcctagc caaccttcac aatcttatca 420

tcacccacaa caccgagcac cacaaactag agatc 455

<210> 7

<211> 332

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1135

    promoter

<220>

<221> misc_feature

<222> (21)..(28)

<223> G-like box

<220>

<221> enhancer

<222> (53)..(90)

<223> Enhancer box

<220>

<221> misc_feature

<222> (174)..(228)

<223> As2/As2/As1 box

<220>

<221> TATA_signal

<222> (264)..(270)

<223> TATA box

<220>

<221> misc_feature

<222> (294)

<223> Transcription Initiation Site

<400> 7

cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat ctgttttgca 60

aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg cgcttttcca 120

accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180

tgatatcaag attgatgtga tatctccact gacgtaaggg atgacgcaca cgcagccatg 240

90

gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa ccttcacaat cttatcatca 300

cccacaacac cgagcaccac aaactagaga tc   332

<210> 8

<211> 219

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1136

      promoter

<220>

<221> misc_feature

<222> (78)..(115)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (151)..(157)

<223> TATA box

<220>

<221> misc_feature

<222> (181)

<223> Transcription Initiation Site

<400> 8

gtgttggcaa actgcgcttt tccaaccgat tttgttcttc tcgcgctttc ttcttaggct 60

aaacaaacct caccgtgatt gatgtgatat ctccactgac gtaagggatg acgcacacgc 120

agccatggtc ctgaaccttc acctcgtccc tataaaagcc tagccaacct tcacaatctt 180

atcatcaccc acaacaccga gcaccacaaa ctagagatc   219

<210> 9

<211> 282

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1137

      promoter

<220>

<221> enhancer

<222> (20)..(57)

<223> Enhancer box

<220>

<221> misc_feature

<222> (141)..(178)

<223> As2/As1 box

<220>

<221> TATA_signal

92

<222> (214)..(220)

<223> TATA box

<220>

<221> misc_feature

<222> (244)

<223> Transcription Initiation Site

<400> 9

gcagactgtc caaaaatctg ttttgcaaag ctccaattgc tccttgctta tccagcttct 60

tttgtgttgg caaactgcgc ttttccaacc gattttgttc ttctcgcgct ttcttcttag 120

gctaaacaaa cctcaccgtg attgatgtga tatctccact gacgtaaggg atgacgcaca 180

cgcagccatg gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa ccttcacaat 240

cttatcatca cccacaacac cgagcaccac aaactagaga tc 282

<210> 10

<211> 315

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1138

        promoter

<220>

<221> misc_feature

<222> (21)..(28)

<223> G-like box

<220>

<221> enhancer

<222> (53)..(90)

<223> Enhancer box

<220>

<221> misc_feature

<222> (174)..(211)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (247)..(253)

<223> TATA box

<220>

<221> misc_feature

<222> (277)

<223> Transcription Initiation Site

<400> 10

```
cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat ctgttttgca 60

aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg cgcttttcca 120

accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180

tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga accttcacct 240

cgtccctata aaagcctagc caaccttcac aatcttatca tcacccacaa caccgagcac 300
```

<210> 11

<211> 505

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1139

     promoter

<220>

<221> misc_feature

<222> (4)..(26)

<223> Cereal box

<220>

<221> misc_feature

<222> (39)..(61)

<223> Cereal box

<220>

<221> misc_feature

<222> (120)..(123)

<223> GATA box

<220>

```
<221> misc_feature

<222> (137)..(140)

<223> GATA box


<220>

<221> misc_feature

<222> (72)..(79)

<223> Prolamine-like box


<220>

<221> misc_feature

<222> (177)..(183)

<223> Prolamine like box


<220>

<221> misc_feature

<222> (211)..(218)

<223> G-like box


<220>

<221> enhancer

<222> (243)..(280)

<223> Enhancer box


<220>

<221> misc_feature

<222> (364)..(401)

<223> As2/As1 box
```

<220>

<221> TATA_signal

<222> (437)..(443)

<223> TATA box

<220>

<221> misc_feature

<222> (467)

<223> Transcription Initiation Site

<400> 11

ctcgacatgg ttagaagttt tgagtgccgc cactactcga catggttaga agttttgagt 60

ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac cccaagaagg 120

ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca cacttctgca 180

aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat 240

ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg 300

cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc 360

gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga 420

accttcacct cgtccctata aaagcctagc caaccttcac aatcttatca tcacccacaa 480

caccgagcac cacaaactag agatc 505

<210> 12

<211> 96

<212> DNA

<213> Artificial Sequence

97

<220>

<223> Description of Artificial Sequence:MPr1197

 promoter

<220>

<221> TATA_signal

<222> (28)..(34)

<223> TATA box

<220>

<221> misc_feature

<222> (58)

<223> Transcription Initiation Site

<400> 12

catggtcctg aaccttcacc tcgtccctat aaaagcctag ccaaccttca caatcttatc 60

atcacccaca acaccgagca ccacaaacta gagatc   96

<210> 13

<211> 187

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1198

 promoter

98

<220>

<221> misc_feature

<222> (8)..(15)

<223> G-like box

<220>

<221> enhancer

<222> (40)..(77)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (119)..(125)

<223> TATA box

<220>

<221> misc_feature

<222> (149)

<223> Transcription Initiation Site

<400> 13

acgccgatta cgtggcttta gcagactgtc caaaaatctg ttttgcaaag ctccaattgc 60

tccttgctta tccagcttct tttgtgttgg ccatggtcct gaaccttcac ctcgtcccta 120

taaaagccta gccaaccttc acaatcttat catcacccac aacaccgagc accacaaact 180

agagatc   187

<210> 14

99

<211> 290

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1199

       promotoer

<220>

<221> misc_feature

<222> (6)..(25)

<223> GC rich box

<220>

<221> misc_feature

<222> (34)..(41)

<223> G-like box

<220>

<221> enhancer

<222> (66)..(103)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (222)..(228)

<223> TATA box

<220>

<221> misc_feature

<222> (252)

<223> Transcription Initiation Site

<400> 14

caaatgggcc ggaccgggcc ggcccagcgc cgattacgtg gctttagcag actgtccaaa 60

aatctgtttt gcaaagctcc aattgctcct tgcttatcca gcttcttttg tgttggcaaa 120

ctgcgctttt ccaaccgatt ttgttcttct cgcgctttct tcttaggcta aacaaacctc 180

accgtgcacg cagccatggt cctgaacctt cacctcgtcc ctataaaagc ctagccaacc 240

ttcacaatct tatcatcacc cacaacaccg agcaccacaa actagagatc   290

<210> 15

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1200

<220>

<221> misc_feature

<222> (4)..(26)

<223> Cereal box

<220>

<221> misc_feature

<222> (39)..(61)

<223> Cereal box

<220>

<221> misc_feature

<222> (87)..(94)

<223> G-like box

<220>

<221> enhancer

<222> (119)..(156)

<223> Enhancer box

<220>

<221> misc_feature

<222> (240)..(277)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (313)..(319)

<223> TATA box

<220>

<221> misc_feature

<222> (343)

<223> Transcription Initiation Site

<400> 15

ctcgacatgg ttagaagttt tgagtgccgc cactactcga catggttaga agttttgagt 60

ggccgtagat ttgctctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt 120

tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180

tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtga 240

ttgatgtgat atctccactg acgtaaggga tgacgcacac gcagccatgg tcctgaacct 300

tcacctcgtc cctataaaag cctagccaac cttcacaatc ttatcatcac ccacaacacc 360

gagcaccaca aactagagat c   381

<210> 16

<211> 343

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1213

        Promoter

<220>

<221> misc_feature

<222> (4)..(26)

<223> Cereal box

<220>

<221> misc_feature

<222> (39)..(61)

<223> Cereal box

<220>

<221> enhancer

<222> (119)..(156)

<223> Enhancer box

<220>

<221> misc_feature

<222> (87)..(94)

<223> G-like box

<220>

<221> TATA_signal

<222> (275)..(281)

<223> TATA box

<220>

<221> misc_feature

<222> (305)

<223> Transcription Initiation Site

<400> 16

ctcgacatgg ttagaagttt tgagtgccgc cactactcga catggttaga agttttgagt 60

ggccgtagat ttgctctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt 120

tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180

tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc 240

acgcagccat ggtcctgaac cttcacctcg tccctataaa agcctagcca accttcacaa 300

tcttatcatc acccacaaca ccgagcacca caaactagag atc 343

104

<210> 17

<211> 358

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1216

    promoter

<220>

<221> misc_feature

<222> (7)..(14)

<223> G-like box

<220>

<221> enhancer

<222> (39)..(76)

<223> Enhancer box

<220>

<221> misc_feature

<222> (102)..(109)

<223> G-like box

<220>

<221> enhancer

<222> (134)..(171)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (290)..(296)

<223> TATA box

<220>

<221> misc_feature

<222> (320)

<223> Transcription Initiation Site

<400> 17

cgccgattac gtggctttag cagactgtcc aaaaatctgt tttgcaaagc tccaattgct 60

ccttgcttat ccagcttctt ttgtgttggt ctagacgccg attacgtggc tttagcagac 120

tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180

ttggcaaact gcgcttttcc aaccgatttt gttcttctcg cgctttcttc ttaggctaaa 240

caaacctcac cgtgcacgca gccatggtcc tgaaccttca cctcgtccct ataaaagcct 300

agccaacctt cacaatctta tcatcaccca caacaccgag caccacaaac tagagatc 358

<210> 18

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

106

<223> Description of Artificial

       Sequence:Oligodesoxynucleotide

<400> 18

atcggaattc gtgttggcaa actgc   25

<210> 19

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

       Sequence:Oligodesoxynucleotide

<400> 19

atcgggaatt cgcagactgt ccaaaaatc   29

<210> 20

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

       Sequence:Oligodesoxynucleotide

<400> 20

atcggaattc cagaactagg attacgccg   29

<210> 21

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

    Sequence:Oligodesoxynucleotide

<400> 21

tacgaattcc cagctttgag tggccgtag   29

<210> 22

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

    Sequence:Oligodesoxynucleotide

<400> 22

atcggaattc tagacgccga ttacgtggct ttagc   35

<210> 23

<211> 83

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

       Sequence:Oligodesoxynucleotide

<400> 23

tacgaattcc tcgacatggt tagaagtttt gagtgccgcc actactcgac atggttagaa 60

gttttgagtg ccgtagatt tgc   83

<210> 24

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

       Sequence:Oligodesoxynucleotide

<400> 24

atcggaattc gccgattacg tggctttagc   30

<210> 25

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 25

atcggaattc gcagccatgg tcctgaacc   29

<210> 26

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 26

tacgaattcc tcgacatgg   19

<210> 27

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

    Sequence:Oligodesoxynucleotide

<400> 27

attgatgtga tatctccact gacgtaaggg atgacgcaca cgcagccatg gtcctgaacc 60

ttc   63

<210> 28

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

    Sequence:Oligodesoxynucleotide

<400> 28

attgatgtga tatcaagatt gatgtgatat ctccactgac gtaagggatg acgcacacgc 60

agccatggtc ctgaaccttc   80

111

<210> 29

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

     Sequence:Oligodesoxynucleotide

<400> 29

tacggatccc cggggatctc tagtttgtgg tgc   33

<210> 30

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

     Sequence:Oligodesoxynucleotide

<400> 30

gctctagagc aaatctacgg ccactc   26

<210> 31

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

        Sequence:Oligodesoxynucleotide

<400> 31

gctctagacc aacacaaaag aagctgg   27

<210> 32

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

        Sequence:Oligodesoxynucleotide

<400> 32

catgccatgg ccaacacaaa agaagctgg   29

<210> 33

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

     Sequence:Oligodesoxynucleotide

<400> 33

tgcgtcatcc cttacgtcag tggagatatc acatcaatca cggtgaggtt tgtttagcct 60

aag   63

<210> 34

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

     Sequence:Oligodesoxynucleotide

<400> 34

tgcgtcatcc cttacgtcag tggagatatc acatcaatct tgatatcaca tcaatcacgg 60

tgaggtttgt ttagcctaag   80

<210> 35

<211> 236

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1133

   promoter

<220>

<221> misc_feature

<222> (78)..(132)

<223> As2/As2/As1 box

<220>

<221> misc_feature

<222> (198)

<223> Transcription Initiation Site

<400> 35

gtgttggcaa actgcgcttt tccaaccgat tttgttcttc tcgcgctttc ttcttaggct 60

aaacaaacct caccgtgatt gatgtgatat caagattgat gtgatatctc cactgacgta 120

agggatgacg cacacgcagc catggtcctg aaccttcacc tcgtccctat aaaagcctag 180

ccaaccttca caatcttatc atcacccaca acaccgagca ccacaaacta gagatc   236

<210> 36

<211> 299

<212> DNA

<213> Artificial Sequence

<220>

115

<220>

<221> enhancer

<222> (20)..(57)

<223> Enhancer box

<220>

<221> misc_feature

<222> (141)..(195)

<223> As2/As2/As1 box

<220>

<221> misc_feature

<222> (261)

<223> Transcription Initiation Site

<400> 36

gcagactgtc caaaaatctg ttttgcaaag ctccaattgc tccttgctta tccagcttct 60

tttgtgttgg caaactgcgc ttttccaacc gattttgttc ttctcgcgct ttcttcttag 120

gctaaacaaa cctcaccgtg attgatgtga tatcaagatt gatgtgatat ctccactgac 180

gtaagggatg acgcacacgc agccatggtc ctgaaccttc acctcgtccc tataaaagcc 240

tagccaacct tcacaatctt atcatcaccc acaacaccga gcaccacaaa ctagagatc 299

<210> 37

<211> 453

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1217
     promoter

<220>

<221> misc_feature

<222> (8)..(15)

<223> G-like box

<220>

<221> enhancer

<222> (40)..(77)

<223> Enhancer box

<220>

<221> misc_feature

<222> (102)..(109)

<223> G-like box

<220>

<221> enhancer

<222> (134)..(171)

<223> Enhancer box

<220>

<221> misc_feature

117

<222> (197)..(204)

<223> G-like box

<220>

<221> enhancer

<222> (229)..(266)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (385)..(391)

<223> TATA box

<220>

<221> misc_feature

<222> (415)

<223> Transcription Initiation Site

<400> 37

```
acgccgatta cgtggcttta gcagactgtc caaaaatctg ttttgcaaag ctccaattgc 60

tccttgctta tccagcttct tttgtgttgg tctagacgcg attacgtggc tttagcagac 120

tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180

ttggtctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt tttgcaaagc 240

tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct tttccaaccg 300

attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc acgcagccat 360

ggtcctgaac cttcacctcg tccctataaa agcctagcca accttcacaa tcttatcatc 420

acccacaaca ccgagcacca caaactagag atc                             453
```

118

119